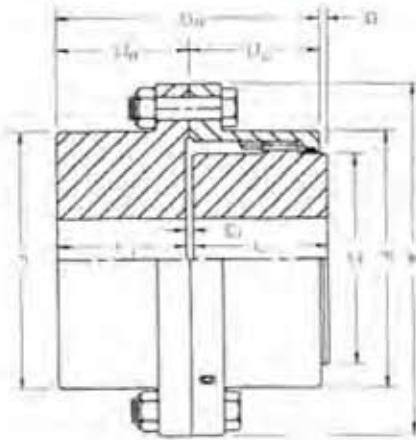


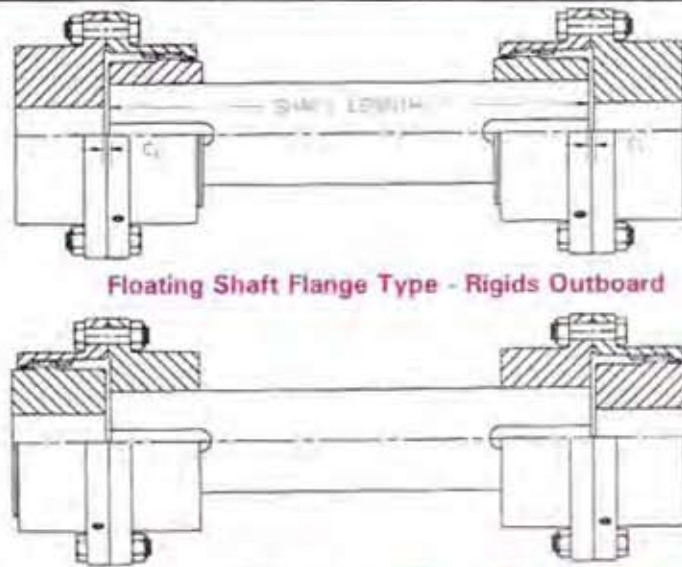
POWERTORK®

DATA SHEET DS101 REV. 04

Series "F" Flex Rigid Flange Type Gear Coupling. Series "F" Floating Shaft Flange Type Gear Coupling.



Flex Rigid Flange Type



Floating Shaft Flange Type - Rigids Outboard

Floating Shaft Flange Type - Rigids Inboard

Series F	Size	1	1½	2	2½	3	3½	4	4½	5	5½	6	7
Rating (HP/100 RPM)	(2)	15.5	31	51	90	152	240	380	500	710	925	1200	1850
Torque Capacity (IN·LBS × 10³)		9.77	19.5	32.1	56.7	96	151	240	315	447	583	756	1166
Maximum Speed (RPM)	(1)	10800	8800	8300	7670	7150	6330	5670	5160	4650	4350	3820	3150
Flex Hub	Maximum Bore	1.63	2.19	2.75	3.50	4.00	4.50	5.50	6.00	6.88	7.75	8.75	10.38
	Standard Keyway	3/8 x 3/16	1/2 x 1/4	5/8 x 5/16	7/8 x 7/16	1 x 1/2	1 x 1/2	1-1/4 x 5/8	1-1/2 x 3/4	1-3/4 x 3/4	2 x 3/4	2 x 3/4	2-1/2 x 7/8
	Maximum Bore	1.75	2.31	2.88	3.75	4.38	5.00	5.88	6.50	7.13	8.00	9.00	10.63
Rigid Hub	Reduced Depth Keyway	3/8 x 1/8	5/8 x 3/16	3/4 x 3/16	7/8 x 5/16	1 x 5/16	1-1/4 x 3/8	1-1/2 x 1/2	1-1/2 x 1/2	1-3/4 x 5/8	2 x 5/8	2 x 5/8	2-1/2 x 3/4
	Maximum Bore	2.25	2.75	3.25	4.38	5.00	5.63	6.75	7.75	8.88	9.50	10.75	12.63
	Standard Keyway	1/2 x 1/4	5/8 x 5/16	3/4 x 3/8	1 x 1/2	1-1/4 x 5/8	1-1/2 x 3/4	1-3/4 x 3/4	2 x 3/4	2 x 3/4	2-1/2 x 7/8	2-1/2 x 7/8	3 x 1
Flex Hub	Maximum Bore	2.44	3.00	3.50	4.50	5.50	6.13	7.00	8.25	9.13	10.00	11.00	13.13
	Reduced Depth Keyway	5/8 x 3/16	3/4 x 3/16	7/8 x 1/4	1 x 3/8	1-1/4 x 3/8	1-1/2 x 1/2	1-3/4 x 5/8	2 x 1/2	2-1/2 x 5/8	2-1/2 x 5/8	2-1/2 x 5/8	3 x 3/4
	Maximum Bore	4.56	6.00	7.00	8.38	9.44	11.00	12.50	13.63	15.31	16.75	18.00	20.75
A		4.56	6.00	7.00	8.38	9.44	11.00	12.50	13.63	15.31	16.75	18.00	20.75
BR		3.31	3.85	4.80	6.00	6.97	8.25	9.28	10.44	11.78	12.94	14.31	16.63
C1		.16	.16	.16	.19	.19	.22	.31	.34	.34	.41	.41	.50
DR		1.65	1.92	2.38	3.00	3.50	4.06	4.61	5.17	5.86	6.30	7.66	9.00
DS		1.66	1.94	2.42	3.00	3.47	4.19	4.67	5.25	5.91	6.57	6.66	7.63
E		1.69	1.94	2.44	3.03	3.59	4.19	4.75	5.31	6.03	6.63	7.41	8.69
E1		1.56	1.84	2.28	2.91	3.41	3.97	4.42	5.00	5.69	6.05	7.41	8.69
F		3.11	3.91	4.88	5.91	6.88	7.91	9.25	10.31	11.56	12.59	13.88	16.09
G		.09	.06	.06	.13	.22	.13	.20	.22	.28	.22	.91	1.25
O		2.36	3.05	3.97	4.88	5.63	6.50	7.75	8.50	9.50	10.50	11.63	13.50
Rough Stock Bore		-	-	-	-	-	-	2.09	2.25	2.25	2.75	3.00	4.00
Weight Solid Hubs (LBS)	(3)	9	18	30	59	83	131	200	268	386	465	645	988
Grease	Weight (LB-OZ.)	0-.6	0-1.2	0-2.5	0-3.3	0-4.8	0-11.5	0-13.5	1-5.5	1-13.5	2-8.3	3-14	5-.3
	Volume (Pints)	.03	.03	.13	.30	.43	.75	.90	1.5	2.0	2.7	2.8	5.6

Notes:

- (1) Maximum speed without dynamic balancing 60% of values shown. Speed limits are recommendations based on experience and are intended as a guide only. Maximum speed values for floating shaft couplings and for speeds higher than those listed consult SCI.
- (2) Load ratings / torque capacities are based on full 1° misalignment per gear mesh. Selection service factors are required. See Data Sheet DS110.
- (3) Weights are for flex rigid couplings. Weights are approximate.
- (4) Lubrication values are for flex rigid couplings.
- (5) Maximum angular misalignment 1 1/2° per gear mesh. For optimum performance, combined angular and offset misalignment should not exceed 3/4° per gear mesh. Application requirements in excess of 3/4° misalignment per flex half coupling should be referred to SCI.
- (6) Floating shaft length = Distance between shaft ends - 2(C1)
- (7) Sizes 5½, 6 and 7 not available in shrouded bolt.



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